

Shanqing Zhang

List of Publications by Year in descending order

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289
papers

18,218
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8755

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all docs

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299
times ranked

17080
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring Chemical, Mechanical, and Electrical Functionalities of Binders for Advanced Energy-Storage Devices. <i>Chemical Reviews</i> , 2018, 118, 8936-8982.	47.7	575
2	Surface capacitive contributions: Towards high rate anode materials for sodium ion batteries. <i>Nano Energy</i> , 2015, 12, 224-230.	16.0	371
3	An efficient and low-cost TiO ₂ compact layer for performance improvement of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2009, 54, 1319-1324.	5.2	326
4	Exploiting a robust biopolymer network binder for an ultrahigh-areal-capacity Li-S battery. <i>Energy and Environmental Science</i> , 2017, 10, 750-755.	30.8	286
5	Microporous bamboo biochar for lithium-sulfur batteries. <i>Nano Research</i> , 2015, 8, 129-139.	10.4	284
6	Photocatalytic Synthesis of TiO ₂ and Reduced Graphene Oxide Nanocomposite for Lithium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3636-3642.	8.0	276
7	Adsorption energy engineering of nickel oxide hybrid nanosheets for high areal capacity flexible lithium-ion batteries. <i>Energy Storage Materials</i> , 2020, 25, 41-51.	18.0	261
8	Stable Seamless Interfaces and Rapid Ionic Conductivity of CaCe ₂ /LiTFSI/PEO Composite Electrolyte for High-Rate and High-Voltage All-Solid-State Battery. <i>Advanced Energy Materials</i> , 2020, 10, 2000049.	19.5	252
9	Conductive carbon nanofiber interpenetrated graphene architecture for ultra-stable sodium ion battery. <i>Nature Communications</i> , 2019, 10, 3917.	12.8	250
10	Recent progress in metal-organic polymers as promising electrodes for lithium/sodium rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4259-4290.	10.3	249
11	A Yolk-Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8824-8828.	13.8	242
12	A porous nitrogen and phosphorous dual doped graphene blocking layer for high performance Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16670-16678.	10.3	241
13	Dual-functional gum arabic binder for silicon anodes in lithium ion batteries. <i>Nano Energy</i> , 2015, 12, 178-185.	16.0	236
14	<i>Acacia Senegal</i> -Inspired Bifunctional Binder for Longevity of Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500878.	19.5	223
15	Heterojunction Architecture of N-Doped WO ₃ Nanobundles with Ce ₂ S ₃ Nanodots Hybridized on a Carbon Textile Enables a Highly Efficient Flexible Photocatalyst. <i>Advanced Functional Materials</i> , 2019, 29, 1903490.	14.9	223
16	Constructing Fe-MOF-Derived Z-Scheme Photocatalysts with Enhanced Charge Transport: Nanointerface and Carbon Sheath Synergistic Effect. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25494-25502.	8.0	217
17	Cationic Surfactant-Based Electrolyte Additives for Uniform Lithium Deposition via Lithiophobic Repulsion Mechanisms. <i>Journal of the American Chemical Society</i> , 2018, 140, 17515-17521.	13.7	211
18	Highly Conductive Two-Dimensional Metal-Organic Frameworks for Resilient Lithium Storage with Superb Rate Capability. <i>ACS Nano</i> , 2020, 14, 12016-12026.	14.6	207

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19	Engineering Crystallinity and Oxygen Vacancies of Co(II) Oxide Nanosheets for High Performance and Robust Rechargeable Zn–Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101239.	14.9	202
20	Interweaving 3D Network Binder for High-Areal-Capacity Si Anode through Combined Hard and Soft Polymers. <i>Advanced Energy Materials</i> , 2019, 9, 1802645.	19.5	181
21	An ultrathin carbon layer activated CeO ₂ heterojunction nanorods for photocatalytic degradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118085.	20.2	177
22	Development of a Direct Photoelectrochemical Method for Determination of Chemical Oxygen Demand. <i>Analytical Chemistry</i> , 2004, 76, 155-160.	6.5	170
23	Hydrogenation Synthesis of Blue TiO ₂ for High-Performance Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8824-8830.	3.1	167
24	Anatase TiO ₂ microspheres with exposed mirror-like plane {001} facets for high performance dye-sensitized solar cells (DSSCs). <i>Chemical Communications</i> , 2010, 46, 8395.	4.1	166
25	Photocatalytic Degradation Characteristics of Different Organic Compounds at TiO ₂ Nanoporous Film Electrodes with Mixed Anatase/Rutile Phases. <i>Environmental Science & Technology</i> , 2007, 41, 303-308.	10.0	165
26	Cerium-based hybrid nanorods for synergetic photo-thermocatalytic degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24740-24747.	10.3	164
27	Two-Dimensional (2D) Covalent Organic Framework as Efficient Cathode for Binder-free Lithium-Ion Battery. <i>ChemSusChem</i> , 2020, 13, 2457-2463.	6.8	159
28	A mechanically robust self-healing binder for silicon anode in lithium ion batteries. <i>Nano Energy</i> , 2021, 81, 105654.	16.0	141
29	Electrodeposition preparation of Ag loaded N-doped TiO ₂ nanotube arrays with enhanced visible light photocatalytic performance. <i>Catalysis Communications</i> , 2011, 12, 689-693.	3.3	138
30	Tailoring the nanostructure and electronic configuration of metal phosphides for efficient electrocatalytic oxygen evolution reactions. <i>Nano Energy</i> , 2020, 69, 104453.	16.0	138
31	One-Pot Hydrothermal Synthesis of SnO ₂ /BiOBr Heterojunction Photocatalysts for the Efficient Degradation of Organic Pollutants Under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28686-28694.	8.0	137
32	Recent applications of TiO ₂ nanomaterials in chemical sensing in aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 875-890.	7.8	133
33	Sulfur Hosts against the Shuttle Effect. <i>Small Methods</i> , 2018, 2, 1700345.	8.6	132
34	A conductive interwoven bamboo carbon fiber membrane for Li–S batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9502-9509.	10.3	131
35	Facile Synthesis of Highly Efficient One-Dimensional Plasmonic Photocatalysts through Ag@Cu ₂ O Core-Shell Heteronanowires. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15716-15725.	8.0	127
36	High-Performance TiO ₂ Photoanode with an Efficient Electron Transport Network for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16277-16282.	3.1	122

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37	In Situ Grown Co-Based Interstitial Compounds: Non-3d Metal and Non-Metal Dual Modulation Boosts Alkaline and Acidic Hydrogen Electrocatalysis. <i>Small</i> , 2022, 18, e2105331.	10.0	122
38	Hierarchical Co ₃ O ₄ @N-Doped Carbon Composite as an Advanced Anode Material for Ultrastable Potassium Storage. <i>ACS Nano</i> , 2020, 14, 5027-5035.	14.6	121
39	Electrodeposition of polyhedral Cu ₂ O on TiO ₂ nanotube arrays for enhancing visible light photocatalytic performance. <i>Electrochemistry Communications</i> , 2011, 13, 861-864.	4.7	120
40	Characterization of Photoelectrocatalytic Processes at Nanoporous TiO ₂ Film Electrodes: Photocatalytic Oxidation of Glucose. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12774-12780.	2.6	118
41	Green Fabrication of Ultrathin Co ₃ O ₄ Nanosheets from Metal-Organic Framework for Robust High-Rate Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41827-41836.	8.0	118
42	Photoelectrocatalytic decontamination of oilfield produced wastewater containing refractory organic pollutants in the presence of high concentration of chloride ions. <i>Journal of Hazardous Materials</i> , 2006, 138, 392-400.	12.4	115
43	Manipulation of Edge-Site Fe-N ₂ Moiety on Holey Fe, N Codoped Graphene to Promote the Cycle Stability and Rate Capacity of Li-S Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1807485.	14.9	109
44	Photoelectrochemical Characterization of Hydrogenated TiO ₂ Nanotubes as Photoanodes for Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11129-11135.	8.0	108
45	Recent Progress of Direct Ink Writing of Electronic Components for Advanced Wearable Devices. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1718-1734.	4.3	108
46	Resilient mesoporous TiO ₂ /graphene nanocomposite for high rate performance lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2014, 256, 247-254.	12.7	107
47	Synthesis and characterization of g-C ₃ N ₄ /Cu ₂ O composite catalyst with enhanced photocatalytic activity under visible light irradiation. <i>Materials Research Bulletin</i> , 2014, 56, 19-24.	5.2	104
48	Wood Carbon Based Single-Atom Catalyst for Rechargeable Zn-Air Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3624-3633.	17.4	103
49	Kinetic study of photocatalytic oxidation of adsorbed carboxylic acids at TiO ₂ porous films by photoelectrolysis. <i>Journal of Catalysis</i> , 2004, 223, 212-220.	6.2	102
50	Housing Sulfur in Polymer Composite Frameworks for Li-S Batteries. <i>Nano-Micro Letters</i> , 2019, 11, 17.	27.0	102
51	Well-Defined Nanostructures for Electrochemical Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2001537.	19.5	102
52	Locally Ordered Graphitized Carbon Cathodes for High-Capacity Dual-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6326-6332.	13.8	101
53	Design Strategies of Safe Electrolytes for Preventing Thermal Runaway in Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2020, 32, 9821-9848.	6.7	100
54	A Facile Vapor-Phase Hydrothermal Method for Direct Growth of Titanate Nanotubes on a Titanium Substrate via a Distinctive Nanosheet Roll-Up Mechanism. <i>Journal of the American Chemical Society</i> , 2011, 133, 19032-19035.	13.7	99

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55	Polypyrrole-encapsulated amorphous Bi ₂ S ₃ hollow sphere for long life sodium ion batteries and lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11370-11378.	10.3	99
56	Multifunctional SA-PProDOT Binder for Lithium Ion Batteries. <i>Nano Letters</i> , 2015, 15, 4440-4447.	9.1	97
57	Interface Engineering of CoS/CoO@N-Doped Graphene Nanocomposite for High-Performance Rechargeable Zn-Air Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 3.	27.0	95
58	Development of Chemical Oxygen Demand On-Line Monitoring System Based on a Photoelectrochemical Degradation Principle. <i>Environmental Science & Technology</i> , 2006, 40, 2363-2368.	10.0	94
59	High-performance aqueous symmetric sodium-ion battery using NASICON-structured Na ₂ VTi(PO ₄) ₃ . <i>Nano Research</i> , 2018, 11, 490-498.	10.4	92
60	Intermediates Adsorption Engineering of CO ₂ Electroreduction Reaction in Highly Selective Heterostructure Cu-Based Electrocatalysts for CO Production. <i>Advanced Energy Materials</i> , 2019, 9, 1901396.	19.5	92
61	Enhanced photocatalytic activity of TiO ₂ nano-structured thin film with a silver hierarchical configuration. <i>Applied Surface Science</i> , 2008, 254, 1630-1635.	6.1	91
62	Polar and conductive iron carbide@N-doped porous carbon nanosheets as a sulfur host for high performance lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2019, 358, 962-968.	12.7	91
63	DFT-Guided Design and Fabrication of Carbon-Nitride-Based Materials for Energy Storage Devices: A Review. <i>Nano-Micro Letters</i> , 2021, 13, 13.	27.0	91
64	Consecutive chemical bonds reconstructing surface structure of silicon anode for high-performance lithium-ion battery. <i>Energy Storage Materials</i> , 2021, 39, 354-364.	18.0	91
65	Ni/SiO ₂ /Graphene-modified separator as a multifunctional polysulfide barrier for advanced lithium-sulfur batteries. <i>Nano Energy</i> , 2020, 76, 105033.	16.0	90
66	Atomically Thin Materials for Next-Generation Rechargeable Batteries. <i>Chemical Reviews</i> , 2022, 122, 957-999.	47.7	87
67	Allelopathic control of cyanobacterial blooms by periphyton biofilms. <i>Environmental Microbiology</i> , 2011, 13, 604-615.	3.8	86
68	Structural and photocatalytic degradation characteristics of hydrothermally treated mesoporous TiO ₂ . <i>Applied Catalysis A: General</i> , 2008, 350, 237-243.	4.3	81
69	All-climate sodium ion batteries based on the NASICON electrode materials. <i>Nano Energy</i> , 2016, 30, 756-761.	16.0	81
70	A robust network binder with dual functions of Cu ²⁺ ions as ionic crosslinking and chemical binding agents for highly stable Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7382-7388.	10.3	81
71	Designing efficient TiO ₂ -based photoelectrocatalysis systems for chemical engineering and sensing. <i>Chemical Engineering Journal</i> , 2020, 381, 122605.	12.7	81
72	High rate capability of TiO ₂ /nitrogen-doped graphene nanocomposite as an anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2013, 561, 54-58.	5.5	79

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73	Catalytic materials for lithium-sulfur batteries: mechanisms, design strategies and future perspective. <i>Materials Today</i> , 2022, 52, 364-388.	14.2	78
74	Ball-milling synthesis of ZnO@sulphur/carbon nanotubes and Ni(OH) ₂ @sulphur/carbon nanotubes composites for high-performance lithium-sulphur batteries. <i>Electrochimica Acta</i> , 2016, 196, 369-376.	5.2	77
75	Carbon Nitride Nanofibres with Exceptional Lithium Storage Capacity: From Theoretical Prediction to Experimental Implementation. <i>Advanced Functional Materials</i> , 2018, 28, 1803972.	14.9	77
76	Sustainability-inspired cell design for a fully recyclable sodium ion battery. <i>Nature Communications</i> , 2019, 10, 1965.	12.8	77
77	Fe ₃ C/Fe ₂ O ₃ heterostructure embedded in N-doped graphene as a bifunctional catalyst for quasi-solid-state zinc-air batteries. <i>Carbon</i> , 2019, 146, 763-771.	10.3	76
78	ZnO/CdS/PbS nanotube arrays with multi-heterojunctions for efficient visible-light-driven photoelectrochemical hydrogen evolution. <i>Chemical Engineering Journal</i> , 2019, 362, 658-666.	12.7	76
79	A Portable Photoelectrochemical Probe for Rapid Determination of Chemical Oxygen Demand in Wastewaters. <i>Environmental Science & Technology</i> , 2009, 43, 7810-7815.	10.0	75
80	Uniform Distribution of Alloying/Dealloying Stress for High Structural Stability of an Al Anode in High-Areal Density Lithium-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1900826.	21.0	75
81	High performance hydrogenated TiO ₂ nanorod arrays as a photoelectrochemical sensor for organic compounds under visible light. <i>Electrochemistry Communications</i> , 2014, 40, 24-27.	4.7	74
82	Photoelectrochemical determination of chemical oxygen demand based on an exhaustive degradation model in a thin-layer cell. <i>Analytica Chimica Acta</i> , 2004, 514, 89-97.	5.4	72
83	Accumulation and risk assessment of heavy metals in water, sediments, and aquatic organisms in rural rivers in the Taihu Lake region, China. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6721-6731.	5.3	72
84	Bismuth nano-spheres encapsulated in porous carbon network for robust and fast sodium storage. <i>Chemical Engineering Journal</i> , 2017, 320, 300-307.	12.7	72
85	Glucose-Induced Formation of Oxygen Vacancy and Bi-Metal Comodified Bi ₅ O ₇ Br Nanotubes for Efficient Performance Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5784-5791.	6.7	72
86	Facile Fabrication of Anatase TiO ₂ Microspheres on Solid Substrates and Surface Crystal Facet Transformation from {001} to {101}. <i>Chemistry - A European Journal</i> , 2011, 17, 5949-5957.	3.3	70
87	Design of a 1D/2D C ₃ N ₄ /rGO composite as an anode material for stable and effective potassium storage. <i>Energy Storage Materials</i> , 2020, 25, 495-501.	18.0	68
88	Robust Pseudocapacitive Sodium Cation Intercalation Induced by Cobalt Vacancies at Atomically Thin Co _{1-x} Se ₂ /Graphene Heterostructure for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18830-18837.	13.8	68
89	A new insight into regulating high energy facets of rutile TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2013, 1, 4182.	10.3	67
90	Enhanced metallicity boosts hydrogen evolution capability of dual-bimetallic Ni-Fe nitride nanoparticles. <i>Materials Today Physics</i> , 2020, 15, 100267.	6.0	67

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91	Photoelectrochemical measurement of phthalic acid adsorption on porous TiO ₂ film electrodes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 156, 201-206.	3.9	65
92	Application of a Poly(4-styrenesulfonate) Liquid Binding Layer for Measurement of Cu ²⁺ and Cd ²⁺ with the Diffusive Gradients in Thin-Films Technique. <i>Analytical Chemistry</i> , 2003, 75, 2578-2583.	6.5	65
93	In situ photoelectrocatalytic generation of bactericide for instant inactivation and rapid decomposition of Gram-negative bacteria. <i>Journal of Catalysis</i> , 2011, 277, 88-94.	6.2	65
94	High-efficient CoPt/activated functional carbon catalyst for Li-O ₂ batteries. <i>Nano Energy</i> , 2021, 84, 105877.	16.0	65
95	A portable miniature UV-LED-based photoelectrochemical system for determination of chemical oxygen demand in wastewater. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 634-640.	7.8	64
96	Free-standing and bendable carbon nanotubes/TiO ₂ nanofibres composite electrodes for flexible lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 104, 41-47.	5.2	64
97	Multifunctional Nitrogen-Doped Loofah Sponge Carbon Blocking Layer for High-Performance Rechargeable Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15991-16001.	8.0	64
98	Engineering of Oxygen Vacancy and Electric Field Effect by Encapsulating Lithium Titanate in Reduced Graphene Oxide for Superior Lithium Ion Storage. <i>Small Methods</i> , 2019, 3, 1900185.	8.6	64
99	Preparation and characterization of hydrophobic TiO ₂ pillared clay: The effect of acid hydrolysis catalyst and doped Pt amount on photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2008, 320, 501-507.	9.4	63
100	Graphitic carbon nitride/BiOCl composites for sensitive photoelectrochemical detection of ciprofloxacin. <i>Journal of Colloid and Interface Science</i> , 2016, 483, 241-248.	9.4	63
101	Functional additives for solid polymer electrolytes in flexible and high energy density solid state lithium ion batteries. , 2021, 3, 929-956.		63
102	Photoelectrocatalytic oxidation of organic compounds at nanoporous TiO ₂ electrodes in a thin-layer photoelectrochemical cell. <i>Journal of Catalysis</i> , 2007, 250, 102-109.	6.2	62
103	Fabrication of Highly Ordered TiO ₂ Nanorod/Nanotube Adjacent Arrays for Photoelectrochemical Applications. <i>Langmuir</i> , 2010, 26, 11226-11232.	3.5	62
104	High-Performance Nanoporous TiO ₂ /La ₂ O ₃ Hybrid Photoanode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1289-1294.	8.0	62
105	Ultrathin Fe ₂ O ₃ nanoflakes using smart chemical stripping for high performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18737-18743.	10.3	62
106	Facile synthesis of interlocking g-C ₃ N ₄ /CdS photoanode for stable photoelectrochemical hydrogen production. <i>Electrochimica Acta</i> , 2018, 279, 74-83.	5.2	62
107	Development of an electrochemical flow injection immunoassay (FIA) for the real-time monitoring of biospecific interactions. <i>Analytica Chimica Acta</i> , 1999, 400, 109-119.	5.4	61
108	Development of a quantitative relationship between inhibition percentage and both incubation time and inhibitor concentration for inhibition biosensors—theoretical and practical considerations. <i>Biosensors and Bioelectronics</i> , 2001, 16, 1119-1126.	10.1	61

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109	A facile fabrication of hierarchical Ag nanoparticles-decorated N-TiO ₂ with enhanced photocatalytic hydrogen production under solar light. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3446-3455.	7.1	61
110	Boosting Electron Transfer with Heterointerface Effect for High-Performance Lithium-Ion Storage. <i>Energy Storage Materials</i> , 2021, 36, 365-375.	18.0	61
111	Pseudocapacitance of amorphous TiO ₂ @nitrogen doped graphene composite for high rate lithium storage. <i>Electrochimica Acta</i> , 2015, 180, 112-119.	5.2	60
112	Sustainable engineering of TiO ₂ -based advanced oxidation technologies: From photocatalyst to application devices. <i>Journal of Materials Science and Technology</i> , 2021, 78, 202-222.	10.7	60
113	Recent advances in the "off" approaches for on-demand liquid-phase hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18164-18174.	10.3	60
114	Structural Transformation, Photocatalytic, and Field-Emission Properties of Ridged TiO ₂ Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1352-1358.	8.0	59
115	Intelligence-assisted predesign for the sustainable recycling of lithium-ion batteries and beyond. <i>Energy and Environmental Science</i> , 2021, 14, 5801-5815.	30.8	59
116	Multifunctional cation-vacancy-rich ZnCo ₂ O ₄ polysulfide-blocking layer for ultrahigh-loading Li-S battery. <i>Nano Energy</i> , 2021, 89, 106331.	16.0	59
117	Blue hydrogenated lithium titanate as a high-rate anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6353.	10.3	58
118	Low cost and green preparation process for Fe_2O_3 @gum arabic electrode for high performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2102-2109.	10.3	58
119	Grain refining mechanisms: Initial levelling stage during nucleation for high-stability lithium anodes. <i>Nano Energy</i> , 2019, 66, 104128.	16.0	55
120	Application of a cellulose phosphate ion exchange membrane as a binding phase in the diffusive gradients in thin films technique for measurement of trace metals. <i>Analytica Chimica Acta</i> , 2002, 464, 331-339.	5.4	54
121	Directional synthesis of tin oxide@graphene nanocomposites via a one-step up-scalable wet-mechanochemical route for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10211-10217.	10.3	54
122	The dual actions of modified polybenzimidazole in taming the polysulfide shuttle for long-life lithium-sulfur batteries. <i>NPG Asia Materials</i> , 2016, 8, e317-e317.	7.9	54
123	Low cost and environmentally benign crack-blocking structures for long life and high power Si electrodes in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2036-2042.	10.3	53
124	A hydrophilic poly(methyl vinyl ether-alt-maleic acid) polymer as a green, universal, and dual-functional binder for high-performance silicon anode and sulfur cathode. <i>Journal of Energy Chemistry</i> , 2021, 62, 127-135.	12.9	53
125	Defect Engineering in Titanium-Based Oxides for Electrochemical Energy Storage Devices. <i>Electrochemical Energy Reviews</i> , 2020, 3, 286-343.	25.5	52
126	A Hollow Shell Structured V ₂ O ₅ Electrode-Based Symmetric Full Li-Ion Battery with Highest Capacity. <i>Advanced Energy Materials</i> , 2019, 9, 1900909.	19.5	51

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127	MoC Quantum Dots@N-doped Carbon for Low-Cost and Efficient Hydrogen Evolution Reaction: From Electrocatalysis to Photocatalysis. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	51
128	Environmentally benign periphyton bioreactors for controlling cyanobacterial growth. <i>Bioresource Technology</i> , 2010, 101, 9681-9687.	9.6	50
129	Rutile TiO ₂ microspheres with exposed nano-acicular single crystals for dye-sensitized solar cells. <i>Nano Research</i> , 2011, 4, 938-947.	10.4	50
130	Gas sensors based on membrane diffusion for environmental monitoring. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 566-578.	7.8	50
131	Designing Ceramic/Polymer Composite as Highly Ionic Conductive Solid-State Electrolytes. <i>Batteries and Supercaps</i> , 2021, 4, 39-59.	4.7	49
132	Development of a generic microelectrode array biosensing system. <i>Analytica Chimica Acta</i> , 2000, 421, 175-187.	5.4	48
133	A Vapor Phase Hydrothermal Modification Method Converting a Honeycomb Structured Hybrid Film into Photoactive TiO ₂ Film. <i>Langmuir</i> , 2009, 25, 11032-11037.	3.5	48
134	Anchoring ultra-fine TiO ₂ -SnO ₂ solid solution particles onto graphene by one-pot ball-milling for long-life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9700-9706.	10.3	47
135	Development of cross-linked dextrin as aqueous binders for silicon based anodes. <i>Journal of Power Sources</i> , 2020, 450, 227671.	7.8	47
136	Degradation of nitrobenzene by synchronistic oxidation and reduction in an internal circulation microelectrolysis reactor. <i>Journal of Hazardous Materials</i> , 2019, 365, 448-456.	12.4	45
137	FeNi intermetallic compound nanoparticles wrapped with N-doped graphitized carbon: a novel cocatalyst for boosting photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3481-3490.	10.3	45
138	Scalable and controllable fabrication of CNTs improved yolk-shelled Si anodes with advanced in operando mechanical quantification. <i>Energy and Environmental Science</i> , 2021, 14, 3502-3509.	30.8	45
139	Superior cycle stability of graphene nanosheets prepared by freeze-drying process as anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 254, 198-203.	7.8	44
140	Graphene oxide wrapped Fe ₂ O ₃ as a durable anode material for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 714, 425-432.	5.5	44
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